Time -

Let m be the size of the first list and let n be the size of the second list

Then to initialize them each takes o(m) and o(n) time.

To merge both of them as we are traversing through both the lists once one after the other it would be o(m+n)

Then using bubble to sort the list - o(m+n*(m+n)) in the worst case.

Space -

For two lists it takes o(m+n) space.